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- 1**  Human-computer interface development: concepts and systems for its management 85%
H. Rex Hartson , Deborah Hix
ACM Computing Surveys (CSUR) March 1989
Volume 21 Issue 1

Human-computer interface management, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue

independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. *Dialogue independence* is th ...

2 Process control languages and APL 84%

 J. A. Richter

Proceedings of seventh international conference on APL June 1975

At the moment, the trend on software developing shows generalized and flexible macro-routines by which any user with an explicit knowledge to his process should be able to write his own software for control, optimization, and information. Generalized software are mostly of the compiler level type and the evolution of these languages in the on-line control field is lagging behind the development in general edp and scientific field by three to five years. The gap is easi ...

3 An operating systems implementation project for an 84% undergraduate course

 Manfred Ruschitzka

Papers of the SIGCSE symposium February 1977

While the adoption of an implementation project for an operating systems course is certainly beneficial, non-trivial projects are inherently demanding in terms of student efforts and computer costs. This paper reports on a project which has been designed to keep the effort for an extensive simulation of a contemporary system within acceptable limits. The project involves both a hardware simulator and an operating system, and a considerable reduction of the overall effort could be achieved b ...

4 Distributed form management 84%

 Heikki Hämmäinen , Eero Eloranta , Jari Alasuvanto

ACM Transactions on Information Systems (TOIS)

January 1990

Volume 8 Issue 1

An open architecture for distributed form management is described. The model employs object-orientation in describing organizational units as well as individual users as entities with uniform external interfaces. Each entity is represented by an autonomous user agent which operates on local and migrating forms. The form concept encapsulates data, layout, and rules into a unified object which is the basic unit of presentation, processing, storage, and commun ...

5 Digital control of industrial processes 83%



Cecil L. Smith

ACM Computing Surveys (CSUR) September 1970

Volume 2 Issue 3

6 A comparative study of environments for database 83%







system implementation

M. Teresa Suarez Fernandez , H. Rex Hartson

Proceedings of the first SIGMINI symposium on Small systems August 1978

Two specific environments for implementation of experimental DataBase Management Systems (DBMS) are compared, especially in light of performance measurement: IBM 370 and HP-2100A. The HP-2100A was selected for a skeletal implementation to study performance parameters further. The DBMS structure, some performance results, and several difficulties encountered are described. The HP-2100A minicomputer did provide "hands-on" experience and more direct control to customize disk access ...

7 Teaching operating systems in a virtual machine 83%

-  environment
John L. Donaldson
ACM SIGCSE Bulletin , Papers of the 18th SIGCSE
technical symposium on Computer science education
February 1987
Volume 19 Issue 1
- 8**  Design and implementation of a QoS oriented data-link control protocol for CBR traffic in wireless ATM networks 82%
H. Kim , S. K. Biswas , P. Narasimhan , R. Siracusa ,
C. Johnston
Wireless Networks September 2001
Volume 7 Issue 5
This paper presents a QoS oriented Data Link Control (DLC) framework for transporting Constant Bit Rate (CBR) traffic over wireless ATM links. Data link control is usually omitted in fixed ATM networks because cell corruption due to channel error is extremely rare for reliable media like copper wire and optical fiber. However, for wireless, higher bit error rates are quite common due to shadowing and other fading effects. The purpose of DLC in wireless is to provide error-free transport to the h ...
- 9**  Network monitoring system design 82%
Bob Barr , Sung Yoo , Tom Cheatham
ACM SIGCSE Bulletin , Proceedings of the twenty-ninth
SIGCSE technical symposium on Computer science
education March 1998
Volume 30 Issue 1
- 10**  S-connect 82%
Andreas G. Nowatzky , Michael C. Browne , Edmund J.
Kelly , Michael Parkin
ACM SIGARCH Computer Architecture News ,
Proceedings of the 22nd annual international

symposium on Computer architecture May 1995
Volume 23 Issue 2

- 11** An audio input-output computer system for medical information 82%



Michael Otten , Scott I. Allen , Perry Plexico , William C. White

Proceedings of the twenty-fourth national conference
August 1969

An experimental telephone-based input-output system, using low-cost audio response equipment, was implemented on a medium-sized real-time computer. This system enables update of audio vocabulary files from a remote telephone terminal, which is a major feature simplifying program and data base modification. Speech signals are processed with an analog-to-digital converter at the rate of 10,000 samples per second, compressed by a delta modulation program to one bit per sample, and stored on a ...

- 12** A scheduling philosophy for multiprocessing systems 82%



Butler W. Lampson

Communications of the ACM May 1968

Volume 11 Issue 5

- 13** Kernel Corner Writing a Linux Driver 82%



Fernando Matia

Linux Journal January 1998

The main goal of this article is to learn what a driver is, how to implement a driver for Linux and how to integrate it into the operating system. An article for the experienced C programmer

- 14** ASHs 82%

- 4 Deborah A. Wallach , Dawson R. Engler , M. Frans Kaashoek
IEEE/ACM Transactions on Networking (TON) August 1997
Volume 5 Issue 4
- 15** Efficient kernel support for reliable communication 82%
4 Robert D. Russell , Philip J. Hatcher
Proceedings of the 1998 ACM symposium on Applied Computing February 1998
- 16** Datapac X.25 service characteristics 80%
4 A. M. Rybczynski , D. F. Weir
Proceedings of the fifth data communications symposium September 1977
Datapac is a nation-wide public packet switching data communications network operated by the Trans-Canada Telephone System. Datapac, as other networks being developed around the world, allows terminals to access its services by using a standard interface: CCITT Recommendation X.25. Recommendation X.25 defines a set of conventions governing the manner in which packet terminals format control information and data into packets, establish, maintain and clear calls, and manage the transmission a ...
- 17** A project for a course in operating systems 80%
4 Charles M. Shub
Proceedings of the 14th SIGCSE technical symposium on Computer Science Education February 1983
A simulated machine approach to an operating systems course project is described. The motivations for including the project in the course are delineated. The reasons for selecting the particular type of project are given. The fictitious hardware and the requirements for its simulation

are presented. The conceptual issues are amplified. The methodology for a high level process oriented design for a multiprogrammed batch environment is delineated. The primitives to be used in the design are d ...

- 18** Integrating network optimization capabilities into a 80%
[4] high-level modeling language

Stavros A. Zenios

ACM Transactions on Mathematical Software (TOMS)

June 1990

Volume 16 Issue 2

Research in network optimization has reached the stage where large-scale problems-linear or non-linear, pure or generalized-are solved very efficiently with minimal computing resources. Representing such problems for solution on the computer, however, remains a rather cumbersome task. Taking advantage of developments in high-level modeling languages, we design and implement integrated systems to facilitate the representation and solution of network problems. Such systems integrate the flexi ...

- 19** Self-assessment procedure XVI: a self-assessment 80%
[4] procedure dealing with computer organization and logic design

Glen G. Langdon

Communications of the ACM November 1986

Volume 29 Issue 11

A self-assessment procedure dealing with computer organization and logic design

- 20** The design of nectar: a network backplane for 80%
[4] heterogeneous multicomputers

Emmanuel Arnould , H. T. Kung , Francois Bitz ,
Robert D. Sansom , Eric C. Cooperm

ACM SIGARCH Computer Architecture News ,
Proceedings of the third international conference on
Architectural support for programming languages and
operating systems April 1989
Volume 17 Issue 2

Nectar is a "network backplane" for use in heterogeneous multicomputers. The initial system consists of a star-shaped fiber-optic network with an aggregate bandwidth of 1.6 gigabits/second and a switching latency of 700 nanoseconds. The system can be scaled up by connecting hundreds of these networks together. The Nectar architecture provides a flexible way to handle heterogeneity and task-level parallelism. A wide variety of machines can be connected as Nectar nodes ...

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